



Berkeley Storage Manager (BeStMan)

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BeStMan-2



- **Berkeley Storage Manager (BeStMan) 2**

- **Retains all functionalities of the previous BeStMan**
 - SRM v2.2 implementation – interoperable and compatible to other implementations
 - Works on existing storages with posix-compatible file systems
 - Adaptable to special file systems and storages with customized plug-in
 - Supports multiple storage partitions
 - Supports pre-defined static space tokens
 - Easy adaptability and integration to special project environments
 - Supports multiple transfer protocols
 - Supports load balancing for multiple transfer servers
 - Supports grid-mapfile or GUMS server
 - Supports Gateway Mode for faster performance
 - Scales well with some file systems and storages, such as Xrootd and Hadoop
- **Improvements from the previous BeStMan**
 - Jetty based web server container
 - Better performance in http connection handling through configurations
 - Updated dependency libraries
 - New packaging but the same setup process as the previous package



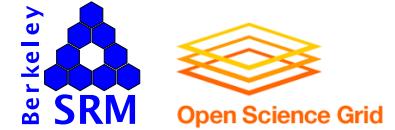
A few benefits on adopting BeStMan



- **User access restriction to certain directory paths through configuration**
- **User access control to files by owners/creators only**
- **Site-specific customization on the load-balancing mechanism for transfer servers through plug-in**
- **Site-specific customization on the file system i/o mechanism for special file system or storage system through plug-in**
- **Plug-in extension for external archival storage systems**
- **Works with other SRM v2.2 server and client implementations**
- **Easy deployment and simple maintenance**
 - Dynamic deployment and personal SRM
 - If the target host does not have an SRM, BeStMan can be downloaded, installed, configured, and started with a few commands (or a script) by the end-user for his/her own BeStMan.



BeStMan SRM Clients



- **BeStMan SRM Clients**

- Supports all functionalities in SRM specification
 - Interoperable and compatible to other SRM server and client implementations
 - Supports multiple transfer protocols
- Improvements from the previous client implementations
 - Updated dependency libraries
 - SRM Java API
 - A few new options to make user experiences better

- **SRM-Tester 3**

- Retains all functionalities of the previous SRM-Tester 2
 - Supports all functionalities in SRM specification
- Updated dependency libraries



Plans



- **Support focus on BeStMan-2**
 - Deprecating support for BeStMan
- **Support and features plans**
 - BeStMan-2/3/4
 - BeStMan SRM clients and Java API
 - SRM-Tester



Documents and Support



- **BeStMan documents at LBNL**
 - <http://sdm.lbl.gov/bestman>
 - <https://sdm.lbl.gov/wiki/Software/BeStMan/BeStMan2Guide/>
 - <https://sdm.lbl.gov/wiki/Software/BeStMan/BeStMan2Guide/BeStMan2FAQ>
 - <https://sdm.lbl.gov/wiki/Software/BeStMan/BeStMan2Guide/Reference>
 - <https://codeforge.lbl.gov/projects/bestman/>
 - <https://codeforge.lbl.gov/projects/bestmancontrib/>
- **BeStMan release documentation at OSG**
 - <https://twiki.grid.iu.edu/bin/view/ReleaseDocumentation/Bestman>
 - <https://twiki.grid.iu.edu/bin/view/ReleaseDocumentation/BestmanGateway>
 - <https://twiki.grid.iu.edu/bin/view/ReleaseDocumentation/BestmanGatewayXrootd>
 - <https://twiki.grid.iu.edu/bin/view/ReleaseDocumentation/BestmanOnCE>
 - <https://twiki.grid.iu.edu/bin/view/ReleaseDocumentation/StorageEndUser>
- **Contact and support**
 - osg-storage@opensciencegrid.org
 - srm@lbl.gov